Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	15268508.20000
Laboratory:	TestAmerica - Savannah, GA[1]	Job ID.:	680-87545-4
Method:	SW-846 8270C Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Samples Collected:	02/14/2013 & 02/15/2013
Reviewer:	Karen Marie Trujillo	Date:	03/11/2013
Concurrence[2]:	Nicole Lancaster / Martha Meyers-Lee	Date:	03/28/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.		✓			
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?	✓			MB 660-134788/1-A: Phenanthrene @ 3.99 J µg/Kg (RL 8.0, MDL 3.9)	
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 021213-RB-Shovel (680-87747-31).	

[1] All analytical work subcontracted to TestAmerica of Tampa, FL
[2] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.		✓		According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 021213-RB-Shovel (680-87747-31) was collected during the week of 02/11/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-87747-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)	✓			Phenanthrene blank contamination action level (BCAL) is 19.95 µg/Kg (3.99 µg/Kg x 5)[3]. Sample-specific BCALs were developed by multiplying the BCAL by the sample dilution factor and dividing it by the percent solids. Sample results that were less than sample-specific BCALs have been qualified due to the presence of blank contamination. The sample detection limit has been elevated to the amount of phenanthrene found in the sample and U-flagged.	U
14. Is a field duplicate associated with this Job?	✓			FM0161UU-CSD (680-87545-70) is a field duplicate of FM0161UU-CS (680-87545-69).	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to **Attachment B** (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? • Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	✓			• Instrument ID: BSMA5973 • Initial Calibration: 02/22/2013 • ICV: 02/22/13 @ 12:48 • CCV: 02/25/13 @ 14:59 • Instrument ID: BSMD5973 • Initial Calibration: 02/22/2013 • ICV: 02/22/13 @ 14:51 • CCV: 02/26/13 @ 14:04	

[3] BCAL developed based on the maximum amount observed in all blanks

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
19. Were calibration results within laboratory/project specifications? • ICAL (Criteria: ≤15 mean %RSD with individual CCC %RSD ≤30 (≤50% for poor performers), OR r≥0.995, OR r^2≥0.99, and RRF ≥0.050 (≥0.010 for poor performers)): o If %RSD>15 (>50% for poor performers), or r <0.995, or r^2 <0.995, then J-flag positive results and UJ-flag non-detects o If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: ≤20%D (≤50% for poor performers) and RF ≥0.050 (≥0.010 for poor performers)): o If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects o If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds		✓		ICV of 02/22/13 @ 12:48, instrument BSMA5973: 2-Methylnaphthalene @ 22.1 %D (Lab: ≤35, Project: ≤20). Positive bias is indicated by the CCV percent difference; therefore, J-flag 2-methylnaphthalene results in associated samples[4].	J
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			• Prep Batch 134788: 680-87545-61 (FM0161AQ-GS), MS/MSD • Prep Batch 134750: 680-87545-41 (FM0161DD-CS), MS/MSD. Lab sample 680-87545-41 is a project-specific sample (FM0161DD-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-87545-3.	
25. Were MS/MSD recoveries within laboratory/project specifications? *Only QC results for project samples that are reported under this Job ID are evaluated.*		✓		FM0161AQ-GS (680-87545-61): • Benzo[a]anthracene @ 122 and 138 %R (40-130). Qualification of data not required[5].	J

[4] 680-87545-62 through -69

[5] The recovery of either the MS or MSD met control limits.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results • MS and MSD R% >UCL (or 140): J-Flag positive results				• Benzo[b]fluoranthene @ 116 and 148 %R (37-130). Qualification of data not required[4]. • Benzo[k]fluoranthene @ 108 and 134 % R (32-130). Qualification of data not required[4]. • Chrysene @ 103 and 138 %R (41-130). Qualification of data not required[4]. • Fluoranthene @ 141 and 183 (40-130), J-flag. • Phenanthrene @ 114 and 141 (42-130). Qualification of data not required[4]. • Pyrene @ 127 and 162 %R (44-130). Qualification of data not required[4].	
26. Were laboratory criteria met for precision during the MS/MSD analysis? *Only QC results for project samples that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J-flag positive result and UJ-flag non-detect result	✓				
27. Were surrogate recoveries within lab/project specifications? • If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results • If 2 or more Acid or BN %R >UCL, then J-flag positive results • If 2 or more Acid or BN %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results • If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results	✓				
28. Were internal standard (IS) results within lab/project specifications? • If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results • If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results • If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
detect results • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Were lab comments included in report?	✓			Refer to **Attachment C** (Case Narrative)	
Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment D**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

DV Flag Definitions:

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R The sample results are unusable. The analyte may or may not be present in the sample.
U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A

SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-4
SDG: 68087545-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-87545-61	FM0161AQ-GS	Solid	02/14/13 14:35	02/16/13 09:03
680-87545-62	FM0161AR-GS	Solid	02/14/13 14:47	02/16/13 09:03
680-87545-63	FM0161AS-GS	Solid	02/14/13 15:23	02/16/13 09:03
680-87545-64	FM0161AT-GS	Solid	02/14/13 15:33	02/16/13 09:03
680-87545-65	FM0161AU-GS	Solid	02/14/13 16:22	02/16/13 09:03
680-87545-66	FM0161RR-CS	Solid	02/14/13 15:52	02/16/13 09:03
680-87545-67	FM0161SS-CS	Solid	02/14/13 15:58	02/16/13 09:03
680-87545-68	FM0161TT-CS	Solid	02/14/13 16:00	02/16/13 09:03
680-87545-69	FM0161UU-CS	Solid	02/14/13 16:05	02/16/13 09:03
680-87545-70	FM0161UU-CSD	Solid	02/14/13 16:07	02/16/13 09:03
680-87545-71	FM0161VV-CS	Solid	02/14/13 16:09	02/16/13 09:03
680-87545-72	FM0161WW-CS	Solid	02/14/13 16:15	02/16/13 09:03
680-87545-73	FM0161XX-CS	Solid	02/14/13 16:18	02/16/13 09:03
680-87545-74	FM0161YY-CS	Solid	02/14/13 16:21	02/16/13 09:03
680-87545-75	FM0161ZZ-CS	Solid	02/14/13 16:31	02/16/13 09:03
680-87545-79	CV0367A-CS-SP	Solid	02/15/13 08:52	02/16/13 09:03
680-87545-80	CV0367B-CS-SP	Solid	02/15/13 08:27	02/16/13 09:03
680-87545-81	FM0161AAA-CS	Solid	02/15/13 08:32	02/16/13 09:03
680-87545-82	FM0161BBB-CS	Solid	02/15/13 08:39	02/16/13 09:03
680-87545-83	FM0161CCC-CS	Solid	02/15/13 08:47	02/16/13 09:03

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	FM0161UU-CS 680-87545-69		RL	FM0161UU-CSD 680-87545-70		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	15	J	41	15	J	41	µg/kg	205	NA	**0**	**82**	None, absolute difference ≤ 2x Avg RL
Anthracene	29		8.7	27		8.7	µg/kg	43.5	NA	**2**	**17.4**	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	84		8.3	84		8.2	µg/kg	41.25	**0**	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	44		11	83		11	µg/kg	55	NA	**39**	**22**	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(b)fluoranthene	90		13	160		13	µg/kg	65	**56**	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	39		21	63		21	µg/kg	105	NA	**24**	**42**	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	38		8.3	44		8.2	µg/kg	41.25	NA	**6**	**16.5**	None, absolute difference ≤ 2x Avg RL
Chrysene	98		9.3	140		9.3	µg/kg	46.5	**35**	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	12	J	21	21		21	µg/kg	105	NA	**9**	**42**	None, absolute difference ≤ 2x Avg RL
Fluoranthene	60		21	150		21	µg/kg	105	NA	**90**	**42**	J/UJ-flag, absolute difference > 2x Avg RL
Fluorene	6.1	J	21	8.6	J	21	µg/kg	105	NA	**2.5**	**42**	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	35		21	58		21	µg/kg	105	NA	**23**	**42**	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	30	J	41	53		41	µg/kg	205	NA	**23**	**82**	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	34	J	41	65		41	µg/kg	205	NA	**31**	**82**	None, absolute difference ≤ 2x Avg RL
Naphthalene	35	J	41	67		41	µg/kg	205	NA	**32**	**82**	None, absolute difference ≤ 2x Avg RL
Phenanthrene	57		8.3	120	B	8.2	µg/kg	41.25	**71**	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	56		21	120		21	µg/kg	105	NA	**64**	**42**	J/UJ-flag, absolute difference > 2x Avg RL

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram
B - Compound was found in the blank and sample
J - Estimated vlaue
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference
UJ - Not detected and the limit is estimated

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

ATTACHMENT C

CASE NARRATIVE

Job ID: 680-87545-4

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87545-4

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 02/16/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.8º C and 3.4º C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0161AQ-GS (680-87545-61), FM0161AR-GS (680-87545-62), FM0161AS-GS (680-87545-63), FM0161AT-GS (680-87545-64), FM0161AU-GS (680-87545-65), FM0161RR-CS (680-87545-66), FM0161SS-CS (680-87545-67), FM0161TT-CS (680-87545-68), FM0161UU-CS (680-87545-69), FM0161UU-CSD (680-87545-70), FM0161VV-CS (680-87545-71), FM0161WW-CS (680-87545-72), FM0161XX-CS (680-87545-73), FM0161YY-CS (680-87545-74), FM0161ZZ-CS (680-87545-75), CV0367A-CS-SP (680-87545-79), CV0367B-CS-SP (680-87545-80), FM0161AAA-CS (680-87545-81), FM0161BBB-CS (680-87545-82) and FM0161CCC-CS (680-87545-83) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/22/2013 and 02/25/2013 and analyzed on 02/25/2013 and 02/26/2013.

Samples FM0161AQ-GS (680-87545-61)[4X], FM0161AU-GS (680-87545-65)[4X], FM0161TT-CS (680-87545-68)[4X], FM0161VV-CS (680-87545-71)[4X], FM0161XX-CS (680-87545-73)[4X], CV0367A-CS-SP (680-87545-79)[4X] and CV0367B-CS-SP (680-87545-80)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The method blank for preparation batch 134788 contained phenanthrene above the method detection limit (MDL), but below the reporting limit (RL). The daily instrument blank was clean. The associated samples contained detects for this analyte at concentrations greater than 10X the value found in the method blank; therefore, re-extraction and re-analysis of samples were not performed. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample FM0161AQ-GSMS (680-87545-61) in batch 660-134863.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample 680-87545-41 in batch 660-134820.

No other difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

Client Sample ID: FM0161AQ-GS

Lab Sample ID: 680-87545-61

Date Collected: 02/14/13 14:35
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 80.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500	U	500	99	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
Acenaphthylene	200	U	200	25	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
Anthracene	**55**		42	21	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
Benzo[a]anthracene	**270**	~~F~~	40	19	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
Benzo[a]pyrene	**280**		52	26	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
Benzo[b]fluoranthene	**480**	~~F~~	60	30	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
Benzo[g,h,i]perylene	**240**		99	22	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
Benzo[k]fluoranthene	**160**	~~F~~	40	18	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
Chrysene	**420**	~~F~~	45	22	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
Dibenz(a,h)anthracene	**63**	J	99	20	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
Fluoranthene	**630**	~~F~~ J	99	20	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
Fluorene	**26**	J	99	20	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
Indeno[1,2,3-cd]pyrene	**210**		99	35	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
1-Methylnaphthalene	**120**	J	200	22	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
2-Methylnaphthalene	**140**	J	200	35	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
Naphthalene	**140**	J	200	22	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
Phenanthrene	**400**	~~B F~~	40	19	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4
Pyrene	**460**	~~F~~	99	18	ug/Kg	☼	02/25/13 06:16	02/26/13 16:22	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*110*		*30 - 130*	*02/25/13 06:16*	*02/26/13 16:22*	*4*

Client Sample ID: FM0161AR-GS

Lab Sample ID: 680-87545-62

Date Collected: 02/14/13 14:47
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 69.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
Acenaphthylene	**10**	J	57	7.1	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
Anthracene	**27**		12	6.0	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
Benzo[a]anthracene	**73**		11	5.5	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
Benzo[a]pyrene	**44**		15	7.4	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
Benzo[b]fluoranthene	**74**		17	8.7	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
Benzo[g,h,i]perylene	**37**		28	6.3	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
Benzo[k]fluoranthene	**30**		11	5.1	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
Chrysene	**89**		13	6.4	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
Dibenz(a,h)anthracene	**12**	J	28	5.8	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
Fluoranthene	**87**		28	5.7	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
Fluorene	**11**	J	28	5.8	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
Indeno[1,2,3-cd]pyrene	**28**		28	10	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
1-Methylnaphthalene	**59**		57	6.3	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
2-Methylnaphthalene	**76**	J	57	10	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
Naphthalene	**89**		57	6.3	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
Phenanthrene	**130**		11	5.5	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1
Pyrene	**67**		28	5.3	ug/Kg	☼	02/22/13 09:08	02/25/13 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*47*		*30 - 130*	*02/22/13 09:08*	*02/25/13 23:46*	*1*

Client Sample ID: FM0161AS-GS

Lab Sample ID: 680-87545-63

Date Collected: 02/14/13 15:23
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 82.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
Acenaphthylene	**7.2**	**J**	48	6.0	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
Anthracene	**110**		10	5.0	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
Benzo[a]anthracene	**510**		9.5	4.6	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
Benzo[a]pyrene	**230**		12	6.2	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
Benzo[b]fluoranthene	**320**		15	7.3	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
Benzo[g,h,i]perylene	**110**		24	5.2	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
Benzo[k]fluoranthene	**200**		9.5	4.3	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
Chrysene	**410**		11	5.4	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
Dibenz(a,h)anthracene	**50**		24	4.9	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
Fluoranthene	**880**		24	4.8	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
Fluorene	**32**		24	4.9	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
Indeno[1,2,3-cd]pyrene	**110**		24	8.5	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
1-Methylnaphthalene	**14**	**J**	48	5.2	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
2-Methylnaphthalene	**21**	~~J~~ J	48	8.5	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
Naphthalene	**23**	**J**	48	5.2	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
Phenanthrene	**440**		9.5	4.6	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1
Pyrene	**720**		24	4.4	ug/Kg	☼	02/22/13 09:08	02/26/13 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*30 - 130*	*02/22/13 09:08*	*02/26/13 00:01*	*1*

Client Sample ID: FM0161AT-GS

Lab Sample ID: 680-87545-64

Date Collected: 02/14/13 15:33
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 98.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	98	U	98	20	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
Acenaphthylene	39	U	39	4.9	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
Anthracene	8.3	U	8.3	4.1	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
Benzo[a]anthracene	**15**		7.9	3.8	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
Benzo[a]pyrene	**7.4**	**J**	10	5.1	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
Benzo[b]fluoranthene	**9.3**	**J**	12	6.0	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
Benzo[g,h,i]perylene	**5.7**	**J**	20	4.3	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
Benzo[k]fluoranthene	**5.1**	**J**	7.9	3.5	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
Chrysene	**8.7**	**J**	8.9	4.4	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
Dibenz(a,h)anthracene	20	U	20	4.0	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
Fluoranthene	**9.0**	**J**	20	3.9	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
Fluorene	20	U	20	4.0	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
Indeno[1,2,3-cd]pyrene	**7.6**	**J**	20	7.0	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
1-Methylnaphthalene	**6.6**	**J**	39	4.3	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
2-Methylnaphthalene	39	U	39	7.0	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
Naphthalene	**8.7**	**J**	39	4.3	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
Phenanthrene	**12**	U	~~7.9~~	~~3.8~~	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1
Pyrene	**9.0**	**J**	20	3.6	ug/Kg	☼	02/22/13 09:08	02/26/13 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*57*		*30 - 130*	*02/22/13 09:08*	*02/26/13 00:17*	*1*

Client Sample ID: FM0161AU-GS

Lab Sample ID: 680-87545-65

Date Collected: 02/14/13 16:22
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 92.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	430	U	430	85	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
Acenaphthylene	170	U	170	21	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
Anthracene	**42**		36	18	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
Benzo[a]anthracene	**140**		34	17	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
Benzo[a]pyrene	**85**		44	22	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
Benzo[b]fluoranthene	**130**		52	26	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
Benzo[g,h,i]perylene	**74**	**J**	85	19	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
Benzo[k]fluoranthene	**45**		34	15	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
Chrysene	**150**		38	19	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
Dibenz(a,h)anthracene	**28**	**J**	85	17	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
Fluoranthene	**190**		85	17	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
Fluorene	85	U	85	17	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
Indeno[1,2,3-cd]pyrene	**55**	**J**	85	30	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
1-Methylnaphthalene	**89**	**J**	170	19	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
2-Methylnaphthalene	**100**	~~J~~ J	170	30	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
Naphthalene	**100**	**J**	170	19	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
Phenanthrene	**200**		34	17	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4
Pyrene	**170**		85	16	ug/Kg	☼	02/22/13 09:08	02/26/13 00:32	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*68*		*30 - 130*	*02/22/13 09:08*	*02/26/13 00:32*	*4*

Client Sample ID: FM0161RR-CS

Lab Sample ID: 680-87545-66

Date Collected: 02/14/13 15:52
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 98.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
Acenaphthylene	**6.3**	**J**	41	5.1	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
Anthracene	**11**		8.6	4.3	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
Benzo[a]anthracene	**47**		8.2	4.0	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
Benzo[a]pyrene	**25**		11	5.3	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
Benzo[b]fluoranthene	**50**		12	6.2	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
Benzo[g,h,i]perylene	**26**		20	4.5	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
Benzo[k]fluoranthene	**17**		8.2	3.7	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
Chrysene	**46**		9.2	4.6	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
Dibenz(a,h)anthracene	**13**	**J**	20	4.2	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
Fluoranthene	**56**		20	4.1	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
Fluorene	20	U	20	4.2	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
Indeno[1,2,3-cd]pyrene	**23**		20	7.2	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
1-Methylnaphthalene	**27**	**J**	41	4.5	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
2-Methylnaphthalene	**34**	~~J~~ J	41	7.2	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
Naphthalene	**34**	**J**	41	4.5	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
Phenanthrene	**53**		8.2	4.0	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1
Pyrene	**47**		20	3.8	ug/Kg	☼	02/22/13 09:08	02/26/13 00:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*55*		*30 - 130*	*02/22/13 09:08*	*02/26/13 00:47*	*1*

Client Sample ID: FM0161SS-CS

Lab Sample ID: 680-87545-67

Date Collected: 02/14/13 15:58
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 97.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
Acenaphthylene	**6.6**	**J**	41	5.1	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
Anthracene	**10**		8.6	4.3	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
Benzo[a]anthracene	**55**		8.2	4.0	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
Benzo[a]pyrene	**32**		11	5.3	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
Benzo[b]fluoranthene	**49**		13	6.3	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
Benzo[g,h,i]perylene	**32**		21	4.5	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
Benzo[k]fluoranthene	**30**		8.2	3.7	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
Chrysene	**53**		9.2	4.6	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
Dibenz(a,h)anthracene	**12**	**J**	21	4.2	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
Fluoranthene	**60**		21	4.1	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
Fluorene	**5.6**	**J**	21	4.2	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
Indeno[1,2,3-cd]pyrene	**23**		21	7.3	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
1-Methylnaphthalene	**26**	**J**	41	4.5	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
2-Methylnaphthalene	**39**	~~J~~ J	41	7.3	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
Naphthalene	**34**	**J**	41	4.5	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
Phenanthrene	**53**		8.2	4.0	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1
Pyrene	**49**		21	3.8	ug/Kg	☼	02/22/13 09:08	02/26/13 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*44*		*30 - 130*	*02/22/13 09:08*	*02/26/13 01:02*	*1*

Client Sample ID: FM0161TT-CS

Lab Sample ID: 680-87545-68

Date Collected: 02/14/13 16:00
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 93.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	430	U	430	86	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
Acenaphthylene	170	U	170	21	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
Anthracene	**26**	**J**	36	18	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
Benzo[a]anthracene	**99**		34	17	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
Benzo[a]pyrene	**47**		44	22	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
Benzo[b]fluoranthene	**73**		52	26	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
Benzo[g,h,i]perylene	**51**	**J**	86	19	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
Benzo[k]fluoranthene	**41**		34	15	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
Chrysene	**68**		38	19	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
Dibenz(a,h)anthracene	**22**	**J**	86	18	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
Fluoranthene	**100**		86	17	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
Fluorene	86	U	86	18	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
Indeno[1,2,3-cd]pyrene	**33**	**J**	86	30	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
1-Methylnaphthalene	**33**	**J**	170	19	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
2-Methylnaphthalene	**57**	~~J~~ J	170	30	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
Naphthalene	**48**	**J**	170	19	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
Phenanthrene	**85**	U	~~34~~	~~17~~	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4
Pyrene	**80**	**J**	86	16	ug/Kg	☼	02/22/13 09:08	02/26/13 01:17	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*54*		*30 - 130*	*02/22/13 09:08*	*02/26/13 01:17*	*4*

Client Sample ID: FM0161UU-CS

Lab Sample ID: 680-87545-69

Date Collected: 02/14/13 16:05
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 97.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
Acenaphthylene	15	J	41	5.2	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
Anthracene	29		8.7	4.3	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
Benzo[a]anthracene	84		8.3	4.0	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
Benzo[a]pyrene	44	J	11	5.4	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
Benzo[b]fluoranthene	90	J	13	6.3	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
Benzo[g,h,i]perylene	39		21	4.5	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
Benzo[k]fluoranthene	38		8.3	3.7	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
Chrysene	98		9.3	4.7	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
Dibenz(a,h)anthracene	12	J	21	4.2	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
Fluoranthene	60	J	21	4.1	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
Fluorene	6.1	J	21	4.2	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
Indeno[1,2,3-cd]pyrene	35		21	7.3	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
1-Methylnaphthalene	30	J	41	4.5	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
2-Methylnaphthalene	34	~~J~~ J	41	7.3	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
Naphthalene	35	J	41	4.5	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
Phenanthrene	57	J	8.3	4.0	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1
Pyrene	56	J	21	3.8	ug/Kg	☼	02/22/13 09:08	02/26/13 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*44*		*30 - 130*	*02/22/13 09:08*	*02/26/13 01:32*	*1*

Client Sample ID: FM0161UU-CSD

Lab Sample ID: 680-87545-70

Date Collected: 02/14/13 16:07
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 96.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
Acenaphthylene	15	J	41	5.2	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
Anthracene	27		8.7	4.3	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
Benzo[a]anthracene	84		8.2	4.0	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
Benzo[a]pyrene	83	J	11	5.4	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
Benzo[b]fluoranthene	160	J	13	6.3	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
Benzo[g,h,i]perylene	63		21	4.5	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
Benzo[k]fluoranthene	44		8.2	3.7	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
Chrysene	140		9.3	4.6	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
Dibenz(a,h)anthracene	21		21	4.2	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
Fluoranthene	150	J	21	4.1	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
Fluorene	8.6	J	21	4.2	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
Indeno[1,2,3-cd]pyrene	58		21	7.3	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
1-Methylnaphthalene	53		41	4.5	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
2-Methylnaphthalene	65		41	7.3	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
Naphthalene	67		41	4.5	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
Phenanthrene	120	~~B~~ J	8.2	4.0	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1
Pyrene	120	J	21	3.8	ug/Kg	☼	02/25/13 06:16	02/26/13 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*30 - 130*	*02/25/13 06:16*	*02/26/13 17:30*	*1*

Client Sample ID: FM0161VV-CS

Lab Sample ID: 680-87545-71

Date Collected: 02/14/13 16:09
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 98.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	410	U	410	81	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
Acenaphthylene	**27**	**J**	160	20	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
Anthracene	**47**		34	17	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
Benzo[a]anthracene	**220**		33	16	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
Benzo[a]pyrene	**180**		42	21	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
Benzo[b]fluoranthene	**320**		50	25	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
Benzo[g,h,i]perylene	**150**		81	18	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
Benzo[k]fluoranthene	**100**		33	15	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
Chrysene	**280**		37	18	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
Dibenz(a,h)anthracene	**48**	**J**	81	17	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
Fluoranthene	**360**		81	16	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
Fluorene	**17**	**J**	81	17	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
Indeno[1,2,3-cd]pyrene	**130**		81	29	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
1-Methylnaphthalene	**110**	**J**	160	18	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
2-Methylnaphthalene	**140**	**J**	160	29	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
Naphthalene	**140**	**J**	160	18	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
Phenanthrene	**270**	~~**B**~~	33	16	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4
Pyrene	**280**		81	15	ug/Kg	☼	02/25/13 06:16	02/26/13 17:53	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*113*		*30 - 130*	*02/25/13 06:16*	*02/26/13 17:53*	*4*

Client Sample ID: FM0161WW-CS

Lab Sample ID: 680-87545-72

Date Collected: 02/14/13 16:15
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 97.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
Acenaphthylene	**6.2**	**J**	40	5.1	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
Anthracene	**16**		8.5	4.2	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
Benzo[a]anthracene	**65**		8.1	3.9	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
Benzo[a]pyrene	**57**		11	5.3	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
Benzo[b]fluoranthene	**95**		12	6.2	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
Benzo[g,h,i]perylene	**44**		20	4.5	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
Benzo[k]fluoranthene	**32**		8.1	3.6	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
Chrysene	**80**		9.1	4.6	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
Dibenz(a,h)anthracene	**13**	**J**	20	4.1	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
Fluoranthene	**120**		20	4.0	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
Fluorene	**6.9**	**J**	20	4.1	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
Indeno[1,2,3-cd]pyrene	**38**		20	7.2	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
1-Methylnaphthalene	**28**	**J**	40	4.5	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
2-Methylnaphthalene	**36**	**J**	40	7.2	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
Naphthalene	**41**		40	4.5	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
Phenanthrene	**83**	~~**B**~~	8.1	3.9	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1
Pyrene	**92**		20	3.7	ug/Kg	☼	02/25/13 06:16	02/26/13 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*95*		*30 - 130*	*02/25/13 06:16*	*02/26/13 18:15*	*1*

Client Sample ID: FM0161XX-CS

Lab Sample ID: 680-87545-73

Date Collected: 02/14/13 16:18
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 97.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	400	U	400	80	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
Acenaphthylene	160	U	160	20	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
Anthracene	34	U	34	17	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
Benzo[a]anthracene	**68**		32	16	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
Benzo[a]pyrene	**56**		42	21	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
Benzo[b]fluoranthene	**110**		49	24	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
Benzo[g,h,i]perylene	**49**	**J**	80	18	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
Benzo[k]fluoranthene	**25**	**J**	32	14	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
Chrysene	**110**		36	18	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
Dibenz(a,h)anthracene	80	U	80	16	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
Fluoranthene	**97**		80	16	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
Fluorene	80	U	80	16	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
Indeno[1,2,3-cd]pyrene	**41**	**J**	80	28	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
1-Methylnaphthalene	**63**	**J**	160	18	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
2-Methylnaphthalene	**100**	**J**	160	28	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
Naphthalene	**110**	**J**	160	18	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
Phenanthrene	**110**	~~**B**~~	32	16	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4
Pyrene	**73**	**J**	80	15	ug/Kg	☼	02/25/13 06:16	02/26/13 18:38	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*128*		*30 - 130*	*02/25/13 06:16*	*02/26/13 18:38*	*4*

Client Sample ID: FM0161YY-CS

Lab Sample ID: 680-87545-74

Date Collected: 02/14/13 16:21
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 95.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
Acenaphthylene	**6.4**	**J**	42	5.2	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
Anthracene	**13**		8.8	4.4	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
Benzo[a]anthracene	**52**		8.4	4.1	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
Benzo[a]pyrene	**44**		11	5.4	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
Benzo[b]fluoranthene	**87**		13	6.4	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
Benzo[g,h,i]perylene	**33**		21	4.6	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
Benzo[k]fluoranthene	**26**		8.4	3.8	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
Chrysene	**74**		9.4	4.7	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
Dibenz(a,h)anthracene	**12**	**J**	21	4.3	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
Fluoranthene	**82**		21	4.2	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
Fluorene	**6.1**	**J**	21	4.3	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
Indeno[1,2,3-cd]pyrene	**30**		21	7.4	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
1-Methylnaphthalene	**38**	**J**	42	4.6	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
2-Methylnaphthalene	**47**		42	7.4	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
Naphthalene	**51**		42	4.6	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
Phenanthrene	**79**	~~**B**~~	8.4	4.1	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1
Pyrene	**62**		21	3.9	ug/Kg	☼	02/25/13 06:16	02/26/13 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*97*		*30 - 130*	*02/25/13 06:16*	*02/26/13 19:00*	*1*

Client Sample ID: FM0161ZZ-CS

Lab Sample ID: 680-87545-75

Date Collected: 02/14/13 16:31
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 96.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
Acenaphthylene	**8.2**	**J**	42	5.2	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
Anthracene	**13**		8.7	4.4	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
Benzo[a]anthracene	**63**		8.3	4.0	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
Benzo[a]pyrene	**55**		11	5.4	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
Benzo[b]fluoranthene	**95**		13	6.3	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
Benzo[g,h,i]perylene	**41**		21	4.6	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
Benzo[k]fluoranthene	**36**		8.3	3.7	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
Chrysene	**80**		9.3	4.7	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
Dibenz(a,h)anthracene	**15**	**J**	21	4.3	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
Fluoranthene	**91**		21	4.2	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
Fluorene	**5.5**	**J**	21	4.3	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
Indeno[1,2,3-cd]pyrene	**35**		21	7.4	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
1-Methylnaphthalene	**44**		42	4.6	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
2-Methylnaphthalene	**54**		42	7.4	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
Naphthalene	**46**		42	4.6	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
Phenanthrene	**83**	~~B~~	8.3	4.0	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1
Pyrene	**73**		21	3.8	ug/Kg	☼	02/25/13 06:16	02/26/13 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*86*		*30 - 130*	*02/25/13 06:16*	*02/26/13 19:23*	*1*

Client Sample ID: CV0367A-CS-SP

Lab Sample ID: 680-87545-79

Date Collected: 02/15/13 08:52
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 96.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	420	U	420	83	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
Acenaphthylene	**27**	**J**	170	21	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
Anthracene	**72**		35	17	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
Benzo[a]anthracene	**260**		33	16	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
Benzo[a]pyrene	**220**		43	22	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
Benzo[b]fluoranthene	**380**		51	25	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
Benzo[g,h,i]perylene	**150**		83	18	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
Benzo[k]fluoranthene	**110**		33	15	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
Chrysene	**330**		37	19	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
Dibenz(a,h)anthracene	**52**	**J**	83	17	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
Fluoranthene	**380**		83	17	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
Fluorene	**22**	**J**	83	17	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
Indeno[1,2,3-cd]pyrene	**130**		83	29	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
1-Methylnaphthalene	**220**		170	18	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
2-Methylnaphthalene	**300**		170	29	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
Naphthalene	**190**		170	18	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
Phenanthrene	**380**	~~B~~	33	16	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4
Pyrene	**340**		83	15	ug/Kg	☼	02/25/13 06:16	02/26/13 19:46	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*118*		*30 - 130*	*02/25/13 06:16*	*02/26/13 19:46*	*4*

Client Sample ID: CV0367B-CS-SP

Lab Sample ID: 680-87545-80

Date Collected: 02/15/13 08:27
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 88.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	450	U	450	90	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
Acenaphthylene	34	J	180	22	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
Anthracene	83		38	19	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
Benzo[a]anthracene	270		36	17	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
Benzo[a]pyrene	230		47	23	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
Benzo[b]fluoranthene	380		55	27	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
Benzo[g,h,i]perylene	150		90	20	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
Benzo[k]fluoranthene	140		36	16	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
Chrysene	320		40	20	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
Dibenz(a,h)anthracene	57	J	90	18	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
Fluoranthene	410		90	18	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
Fluorene	26	J	90	18	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
Indeno[1,2,3-cd]pyrene	140		90	32	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
1-Methylnaphthalene	260		180	20	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
2-Methylnaphthalene	290		180	32	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
Naphthalene	200		180	20	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
Phenanthrene	390	B	36	17	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4
Pyrene	370		90	17	ug/Kg	☼	02/25/13 06:16	02/26/13 20:08	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*107*		*30 - 130*	*02/25/13 06:16*	*02/26/13 20:08*	*4*

Client Sample ID: FM0161AAA-CS

Lab Sample ID: 680-87545-81

Date Collected: 02/15/13 08:32
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 95.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
Acenaphthylene	11	J	41	5.2	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
Anthracene	17		8.7	4.3	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
Benzo[a]anthracene	84		8.3	4.0	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
Benzo[a]pyrene	73		11	5.4	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
Benzo[b]fluoranthene	140		13	6.3	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
Benzo[g,h,i]perylene	53		21	4.5	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
Benzo[k]fluoranthene	39		8.3	3.7	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
Chrysene	99		9.3	4.6	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
Dibenz(a,h)anthracene	17	J	21	4.2	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
Fluoranthene	120		21	4.1	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
Fluorene	6.4	J	21	4.2	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
Indeno[1,2,3-cd]pyrene	49		21	7.3	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
1-Methylnaphthalene	52		41	4.5	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
2-Methylnaphthalene	61		41	7.3	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
Naphthalene	59		41	4.5	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
Phenanthrene	95	B	8.3	4.0	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1
Pyrene	100		21	3.8	ug/Kg	☼	02/25/13 06:16	02/26/13 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*104*		*30 - 130*	*02/25/13 06:16*	*02/26/13 20:31*	*1*

Client Sample ID: FM0161BBB-CS

Lab Sample ID: 680-87545-82

Date Collected: 02/15/13 08:39
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 99.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
Acenaphthylene	**8.9**	**J**	40	5.0	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
Anthracene	**15**		8.4	4.2	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
Benzo[a]anthracene	**62**		8.0	3.9	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
Benzo[a]pyrene	**56**		10	5.2	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
Benzo[b]fluoranthene	**100**		12	6.1	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
Benzo[g,h,i]perylene	**38**		20	4.4	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
Benzo[k]fluoranthene	**33**		8.0	3.6	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
Chrysene	**89**		9.0	4.5	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
Dibenz(a,h)anthracene	**13**	**J**	20	4.1	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
Fluoranthene	**99**		20	4.0	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
Fluorene	**8.6**	**J**	20	4.1	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
Indeno[1,2,3-cd]pyrene	**33**		20	7.1	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
1-Methylnaphthalene	**55**		40	4.4	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
2-Methylnaphthalene	**67**		40	7.1	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
Naphthalene	**83**		40	4.4	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
Phenanthrene	**100**	~~B~~	8.0	3.9	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1
Pyrene	**78**		20	3.7	ug/Kg	☼	02/25/13 06:16	02/26/13 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*30 - 130*	*02/25/13 06:16*	*02/26/13 20:53*	*1*

Client Sample ID: FM0161CCC-CS

Lab Sample ID: 680-87545-83

Date Collected: 02/15/13 08:47
Matrix: Solid
Date Received: 02/16/13 09:03
Percent Solids: 98.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
Acenaphthylene	**16**	**J**	40	5.0	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
Anthracene	**24**		8.4	4.2	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
Benzo[a]anthracene	**110**		8.0	3.9	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
Benzo[a]pyrene	**97**		10	5.2	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
Benzo[b]fluoranthene	**220**		12	6.1	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
Benzo[g,h,i]perylene	**61**		20	4.4	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
Benzo[k]fluoranthene	**59**		8.0	3.6	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
Chrysene	**140**		9.0	4.5	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
Dibenz(a,h)anthracene	**22**		20	4.1	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
Fluoranthene	**140**		20	4.0	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
Fluorene	**7.5**	**J**	20	4.1	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
Indeno[1,2,3-cd]pyrene	**62**		20	7.1	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
1-Methylnaphthalene	**61**		40	4.4	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
2-Methylnaphthalene	**76**		40	7.1	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
Naphthalene	**72**		40	4.4	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
Phenanthrene	**110**	~~B~~	8.0	3.9	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1
Pyrene	**110**		20	3.7	ug/Kg	☼	02/25/13 06:16	02/26/13 21:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*111*		*30 - 130*	*02/25/13 06:16*	*02/26/13 21:16*	*1*